

## ABSTRACT

A memory module controller for providing an interface between a system memory controller and a plurality of memory devices on a memory module. The memory module includes first interface circuitry and control logic. The first  
5 interface circuitry is configured to receive from the system memory controller a first memory transaction in a first format. The control logic is coupled to the first interface circuitry and configured to convert the first memory transaction into a second memory transaction in a second format for the plurality of memory devices. The second format of the second memory transaction is different than  
10 the first format of the first memory transaction.